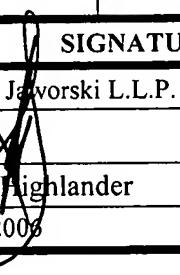


TRANSMITTAL FORM		Application Number:	10/534,099		
		Filing Date:	MAY 6, 2005		
		First Named Inventor:	BENOIT DE CROMBRUGGHE		
		Art Unit:	Unknown		
		Examiner Name:	Unknown		
Total Number of Pages in this Submission :		Attorney Docket Number:			
UTSC:772US					
ENCLOSURES (check all that apply)					
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Form PTO-1449 <input type="checkbox"/> References _____ <input type="checkbox"/> Certified Copy of Priority Documents <input checked="" type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input checked="" type="checkbox"/> Reply to Missing Parts/Requirements <input checked="" type="checkbox"/> Declaration(s) 2 <input checked="" type="checkbox"/> Copy of Notice of Missing Parts/Requirements	<input type="checkbox"/> Drawings(s) _____ <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Statement under 37 CFR §3.73(b) <input type="checkbox"/> Designation of Patent Practitioners <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below)			
		<input checked="" type="checkbox"/> Check in the amount of \$60.00 <input checked="" type="checkbox"/> Authorized to be charged to deposit account if check insufficient or inadvertently omitted Deposit account number: <u>50-1212/UTSC:772US</u>			
		<input checked="" type="checkbox"/> Sequence Statement <input checked="" type="checkbox"/> Paper Copy of Sequence Listing <input checked="" type="checkbox"/> Computer Readable Form (CRF) <input checked="" type="checkbox"/> Postcard <input checked="" type="checkbox"/> Notification of Defective Response <input type="checkbox"/> _____			
		Remarks:			
		SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
		Firm Name	Fulbright & Jaworski L.L.P.		Customer Number 32425
		Signature			
		Printed Name	Steven L. Highlander	Reg. No.	37,642
		Date	March 21, 2006		

EXPRESS MAIL MAILING LABEL	
NUMBER	EV 674811651 US
DATE OF DEPOSIT March 21, 2006	

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

BENOIT DE CROMBRUGGHE
HARUHIKO AKIYAMA

Serial No.: 10/534,099

Filed: MAY 6, 2005

For: HA4, A NEW OBSTEOBLAST-AND
CHONDROCYTE-SPECIFIC SMALL
SECRETED PEPTIDE, COMPOSITIONS
AND METHODS OF USE

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: UTSC:772US

EXPRESS MAIL MAILING LABEL
NUMBER EV 674811651 US
DATE OF DEPOSIT March 21, 2006

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C.
371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) AND
THE NOTIFICATION OF DEFECTIVE RESPONSE

MS PCT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In response to the Notification of Missing Requirements under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US), dated December 22, 2005 and also the Notification of Defective Response dated January 10, 2006, there are enclosed herewith:

- (a) Two Declarations executed on behalf of BENOIT DE CROMBRUGGHE AND HARUHIKO AKIYAMA;
- (b) Statement as Required Under 37 C.F.R. § 1.825(a) and (b) and Statement as Required Under 37 C.F.R. § 1.821(g);
- (c) Computer Readable Form of Sequence Listing;
- (d) Paper Copy of Sequence Listing;

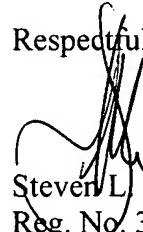
- (e) Our check in the amount of \$60.00 to cover the one month extension of time fee;
- (f) A copy of Notification of Missing Requirements under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US) and the Notification of Defective Response; and
- (g) A Request for Extension of Time of one month to and including March 22, 2006. Should such request be absent, consider this such a request and authorization to withdraw the appropriate fee under 37 C.F.R. §§ 1.16 to 1.21 as stated below.

An Assignment to BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM and a check for \$40.00 are being filed under separate cover.

If the check is inadvertently omitted, or should any additional fees under 37 C.F.R. §§ 1.16 to 1.21 be required for any reason relating to the enclosed materials, or should an overpayment be included, the Commissioner is authorized to deduct or credit the appropriate fees from or to Fulbright & Jaworski Deposit Account No.: 50-1212/UTSC:772US.

Please date stamp and return the accompanying postcard to evidence receipt of these documents.

Respectfully submitted,


Steven L. Highlander
Reg. No. 37,642
Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P.
600 Congress Avenue, Suite 2400
Austin, Texas 78701
(512) 474-5201

Date: March 21, 2006



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/534,099	Benoit De Crombrugehe	TUSC:772US
		INTERNATIONAL APPLICATION NO.
		PCT/US03/35139
		I.A. FILING DATE PRIORITY DATE
		11/04/2003 11/04/2002
CONFIRMATION NO. 2102		
371 FORMALITIES LETTER		
 OC000000017812418		

Date Mailed: 01/10/2006

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 05/06/2005
- English Translation of the IA filed on 05/16/2005
- Copy of the International Search Report filed on 05/06/2005
- Preliminary Amendments filed on 05/06/2005
- Biochemical Sequence Diskette filed on 05/16/2005
- Biochemical Sequence Listing filed on 05/16/2005
- Small Entity Statement filed on 05/06/2005
- Copy of references cited in ISR filed on 05/16/2005
- U.S. Basic National Fees filed on 05/06/2005
- Assignment filed on 05/16/2005
- Priority Documents filed on 05/06/2005

FULBRIGHT & JAWORSKI, LLP

IPT DOCKETING

Docketed Not Req'd Confirmation

Initials 1st DL Initials 2nd SL

JAN 18 2006

Attorney

DLPLSCH

Docket No.

VTSC:772US

Action Req'd

Date Due

*Missing Parts due 2/22/06.
Final 1/22/06.*

Applicant's response filed 05/16/2005 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 12/22/2005 have not been completed.

- (Handwritten mark resembling a stylized 'X')*
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under

37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- **For Rules Interpretation, call (571) 272-0951**
- **For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.**
- **Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov**

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

DEBORAH D WILLIAMS

Telephone: (703) 308-9140 EXT 205

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/534,099	PCT/US03/35139	TUSC:772US

FORM PCT/DO/EO/916 (371 Formalities Notice)

mail

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/534,099

Source:

PCT/10

Date Processed by STIC:

5/16/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/534,099

DATE: 05/16/2005
TIME: 12:07:15

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 4 AKIYAMA, HARUHIKO
 6 <120> TITLE OF INVENTION: HA4, A NEW OSTEOBLAST- AND CHONDROCYTE-SPECIFIC SMALL
 7 SECRETED PEPTIDE, COMPOSITIONS AND METHODS OF USE
 9 <130> FILE REFERENCE: UTSC:772US
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/534,099
 12 <141> CURRENT FILING DATE: 2005-05-06
 14 <150> PRIOR APPLICATION NUMBER: PCT/US2003/035139
 15 <151> PRIOR FILING DATE: 2003-11-04
 17 <150> PRIOR APPLICATION NUMBER: 60/423,690
 18 <151> PRIOR FILING DATE: 2002-11-04
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 41 1 5 10 15
 43 ttc ctt gtg ctg ctg ctg ctt cag ttg tcc gca ccg tcc agc gcc tct .96
 44 Phe Leu Val Leu Leu Leu Gln Leu Ser Ala Pro Ser Ser Ala Ser
 45 20 25 30
 47 gag aac ccc aag gtg aag caa aaa gcg ctg atc ccg cag agg gag gtg 144
 48 Glu Asn Pro Lys Val Lys Gln Lys Ala Leu Ile Arg Gln Arg Glu Val
 49 35 40 45
 51 gta gac ctg tat aat gga atg tgt cta caa gga cca gca gga gtt ccc 192
 52 Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro
 53 50 55 60
 55 ggt cgt gat ggg agc cct ggg gcc aat ggc att cct ggc aca cct ggc 240
 56 Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly
 57 65 70 75 80
 59 atc cca ggt cgg gat gga ttc aaa ggg gaa aag gga gaa tgc tta agg 288
 60 Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg
 61 85 90 95
 63 gaa agc ttt gag gag tcc tgg acc cca aac tat aag cag tgt tcg tgg 336

fyp 3,6

**Does Not Comply
Corrected Diskette Needed**

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,099

DATE: 05/16/2005

TIME: 12:07:15

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71	tcc	acg	aag	atg	cgc	tcc	aac	agt	gct	ctg	cga	gtt	ctg	ttc	agt	ggc
72	Phe	Thr	Lys	Met	Arg	Ser	Asn	Ser	Ala	Leu	Arg	Val	Leu	Phe	Ser	Gly
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76	Ser	Leu	Arg	Leu	Lys	Cys	Arg	Asn	Ala	Cys	Cys	Gln	Arg	Trp	Tyr	Phe
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79	aca	ttt	aat	gga	gct	gaa	tgt	tca	gga	cct	ccc	atc	gaa	gcc	atc	
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81			165				170								175	
83	atc	tat	ctg	gac	caa	gga	agc	cct	gag	tta	aat	tca	act	att	aat	att
84	Ile	Tyr	Leu	Asp	Gln	Gly	Ser	Pro	Glu	Leu	Asn	Ser	Thr	Ile	Asn	Ile
85			180				185				190					
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88	His	Arg	Thr	Ser	Ser	Val	Glu	Gly	Leu	Cys	Glu	Gly	Ile	Gly	Ala	Gly
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93			210				215				220					
95	gga	gac	gct	tct	act	gga	tgg	aat	tcc	gtg	tct	cgc	atc	atc	att	gaa
96	Gly	Asp	Ala	Ser	Thr	Gly	Trp	Asn	Ser	Val	Ser	Arg	Ile	Ile	Ile	Glu
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117				20				25							30	
118	Glu	Asn	Pro	Lys	Val	Lys	Gln	Lys	Ala	Leu	Ile	Arg	Gln	Arg	Glu	Val
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122	Gly	Arg	Asp	Gly	Ser	Pro	Gly	Ala	Asn	Gly	Ile	Pro	Gly	Thr	Pro	Gly
123	65				70					75					80	
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/534,099

DATE: 05/16/2005
TIME: 12:07:15

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Output Set: N:\CRF4\05162005\J534099.raw

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132	Ser Leu Arg Leu Lys Cys Arg Asn Ala	Cys Cys Gln Arg Trp Tyr Phe	
133	145	150	155
134	Thr Phe Asn Gly Ala Glu Cys Ser Gly	Pro Leu Pro Ile Glu Ala Ile	
135	165	170	175
136	Ile Tyr Leu Asp Gln Gly Ser Pro	Glu Leu Asn Ser Thr Ile Asn Ile	
137	180	185	190
138	His Arg Thr Ser Ser Val Glu Gly	Leu Cys Glu Gly Ile Gly Ala Gly	
139	195	200	205
140	Leu Val Asp Val Ala Ile Trp Val	Gly Thr Cys Ser Asp Tyr Pro Lys	
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179	cacggggata taatcccc cttcttgc ttttaagaag ctaaagttt aaagttcac	1020	
180	aatatctagt ccttagaatt aataacttgt tgacaaaaca tctcaaatac ttgactgtat	1080	
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,099

DATE: 05/16/2005

TIME: 12:07:15

Input Set : E:\UTSC772US.APP.txt

Output Set: N:\CRF4\05162005\J534099.raw

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 204 gccacacctgct cttggcgcc ctcttgcatt actatagctc tggaaactg tgtgtctcaa 2520
 205 ggccccaccc cacagcagcc agcagctagc tggcttcaca tgggtcaatg atcggctggg 2580
 206 agatgagaa aaatgacttt acaataatgt tttcttgc caaagaattt tttgagcac 2640
 207 agctaataatc taattaccat tgattgtaat taataacaat tataaaagct ttcttttattt 2700
 208 tctgtaaagc cttctgttagt aaactaaaaac cctaagtaat aaaaagatat tgctctgag 2760
 209 tcttttgggt gagagcaagg atttaaagta aactctctt gagaggcatt agctaataaaa 2820
 210 atattttcca ctttagaaac aatacataact gaaagattaa aactcttgc ttcttgtata 2880
 211 gaagcagaaaa tgataaaaat ttctcacata atgtagatca atattnagcc atactagagg 2940
 212 ctaaatattc cagtnntnc anactcaacta gaagaaaaac ctttacaatc attaagangc 3000
 213 aaaggagaga gaaaaagaaa caaactttca gatctataat aactatataa aagtagggca 3060
 214 agccagattt taatgccttg ataaattata cagtcgtatt gaccctttt aaactctaaa 3120
 215 ttgaacttt attaaaacaa catctggcta gatccgtaaa ggtgtcttt tagctaaaag 3180
 216 aatatctcct ggtttcaag acaaaggaaa gtcacacaaa ccgaacagaa gctgctctga 3240
 217 gcttagttcc tcttgcctatg aggacatata tttagattac taagttctt ttgcaccatt 3300
 218 aactttggga aagtaaaact ccattttaaa acaatttac actttcgaa tcaacattaa 3360
 219 aactttacta atacattgca aattttggcc tgctgtgcca cgtgttgag aagactcctg 3420
 220 agttgccaat tttaaggcta accttctgtt accaatgtaa caatttattt atcttaacca 3480
 221 ataactttag agctgattgt gaaaacacgc agagcacatt accaataaaa aaaatgaagc 3540
 222 agttacactt agaccaatca gagaatatta attttcttag ctacaatcat agaataaaaag 3600
 223 cactttatca ttgcacaaat acattaataa cgattgcaga gaaccctcca ggaaaaaacc 3660
 224 atttatcagc ttttttaccc caaaaccaag aggctgcaga ctctctttt tcctataaaag 3720
 225 aacagttct ccagcagggg ccctctgcg gtgtgctgg ttcctggta aagcatgtgg 3780
 226 ccactcttgg ctgtatgaa ccaccagata aagtttttta gccatcttta ttatccaaca 3840
 227 taaaacatag aacattcatt cattctgact ggacacgaac atacatgaat tgaacatgtg 3900
 228 aacggattgg tgcacccaaa cacaaaaaaca caagaggca gagaacttct gctgtaaggc 3960
 229 ccagagagaa caaagcagcg caccctgaa atttctctt gcttctggta cattttcctc 4020
 230 ccacatgatg cagtttctaa ctgtggccat ccacctgatt attaaatccc ttttattaaa 4080

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,099

DATE: 05/16/2005

TIME: 12:07:15

Input Set : E:\UTSC772US.APP.txt

Output Set: N:\CRF4\05162005\J534099.raw

231 ccctttctt tctcacgcct aaaaaaagca acttcttgg a gctgcggcta actgcctgat 4140
 232 aaatttcact gctgaaaacta agtgaattt a gcgccgagg t ttaacgcagt ttcaacttag 4200
 233 cccataccaa ccttctccgg tacgaatttt cttaattat tttcttcttc catggagctc 4260
 234 caaaccagca atgcttcttc caaatgtcct ctgcgtttc ccagtcggc gttggttcgc 4320
 235 caatctgtt aggccagcca gcggcccaca tgtctgggtt ctgcctggg aggtatctt 4380
 236 gaatctggaa gagaagaggg aactaggcgg ctcgagagag aatggaacga taatggaacc 4440
 237 aagacatcg tctgatcaag gttcaattt actatttgg a gacactgggt tatgaagtag 4500
 238 agggagggggc ccattccgtc caaatcatcc ttggagtc a gttcagggt accacgtgtt 4560
 239 ggctccggaa cagctaggcc gcaggtagca gca gtcggag tgacaggctc caccctgat 4620
 240 gctctnttag cccta acagt caaacctgat cagccagatt tcaggctggg ggggaggta 4680
 241 caatattttt tgg tctttt ttcatgc a gtc ttgggggg gggttgtttt gtttgtttt 4740
 242 attgagacag gaatttgctg t gtagcctt attgtcttgg a atttgc t gtaaactagg 4800
 243 ctgtccatga actcacagag atctacac tgc ctgcctt ctagtgc tgg gttaaagg 4860
 244 gtcaccacc accacctagc ccataatctc atattctatc aagggattt gttccataa 4920
 245 atgcacttat cataa gaggt tccaacagat ggaacacaac tacacagat aagtggaact 4980
 246 aatacatgtg tgccttggt gaa gaaatccc ttatctt a tgc ttttcatg tgcttgc tttt 5040
 247 atcaaaacat ctttccac t gttctgc tttt taggataaca ctccttcaca t gtttgcac 5100
 248 agcaaagcac catc a gac gactgactt ccaaa gaaacc cttaa gttt cacttc a gat 5160
 249 aggcatctt tttttaggt taagaaaatt ttttccgt cactctgtt gggat tttt 5220
 250 ctgtgcattt gacctgtgtt ttttccctt ctttaattt tttttagat ttttgc tttt 5280
 251 cacagtgtcc cagatttccctt ggttgggg aaccaggat tttttaga ttttgc tttt 5340
 252 tctttgaccc atgtattcat ttttcttacc atgttccat ttttgc tttt 5400
 253 aattctt gaa ttctgttggt gaa gtttgc ttttgc ttttgc ttttgc tttt 5460
 254 tcatttccat atttccctca gtttggggc ttttattaa ttttgc ttttgc ttttgc tttt 5520
 255 ccaggagtca ctttccat ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 5580
 256 actcaggagc tgaactgtga ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 5640
 257 ctataataac catcttgc ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 5700
 258 gtaggagcat ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 5760
 259 ggcagaggac ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 5820
 260 tccacataca ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 5880
 261 ctttccat ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 5940
 262 ctctctt ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6000
 263 tacacagggtt ctttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6060
 264 ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6120
 265 ttaccaagac ctttccat ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6180
 266 ctttccat ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6240
 267 ctttccat ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6300
 268 ctttccat ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6360
 269 ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6420
 270 gggaaaaaca ttttgc ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6480
 271 agatgggtgc agaaggc ttttgc ttttgc ttttgc ttttgc tttt 6540
 272 gagaggtt gatcttgc ttttgc ttttgc ttttgc ttttgc tttt 6600
 273 ccaggaggat ttttgc ttttgc ttttgc ttttgc ttttgc tttt 6660
 274 ggaattttagg agggaaat ttttgc ttttgc ttttgc tttt 6720
 275 cgctgcaggat ttttgc ttttgc ttttgc ttttgc tttt 6780
 276 gggaggcgtt ggttgc ttttgc ttttgc ttttgc tttt 6840
 277 tcagagat ttttgc ttttgc ttttgc ttttgc tttt 6900
 278 caaactat ttttgc ttttgc ttttgc ttttgc tttt 6960
 279 tggctattttt ttttgc ttttgc ttttgc ttttgc tttt 7020

from sequence 3

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6

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncagtc 18720
agnctttttt tcaanaagaa agggaaatgg aagctaccaa taggtatgta tttatttagag 18780
atacatctag agtctgctt ttgttaatt cttcaggaat tcaagacttt aagtaccctc 18840
aaagcttaca gttt⁰tacgt tacctagcac gttttcagag agcagcacaa aggttaaaca 18900

last "n" in sequence 3

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/534,099

DATE: 05/16/2005
TIME: 12:07:16

Input Set : E:\UTSC772US.APP.txt
Output Set: N:\CRF4\05162005\J534099.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 265,1987,2010,2018,2032,2339,2355,2375,2383,2436,2955,2959
Seq#:3; N Pos. 2962,2998,4626,8255,18422,18460,18464,18484,18495,18508
Seq#:3; N Pos. 18520,18524,18560,18570,18571,18576,18591,18594,18610,18613
Seq#:3; N Pos. 18614,18619,18632,18633,18634,18635,18636,18637,18638,18639
Seq#:3; N Pos. 18640,18641,18642,18643,18644,18645,18646,18647,18648,18649
Seq#:3; N Pos. 18650,18651,18652,18653,18654,18655,18656,18657,18658,18659
Seq#:3; N Pos. 18660,18661,18662,18663,18664,18665,18666,18667,18668,18669
Seq#:3; N Pos. 18670,18671,18672,18673,18674,18675,18676,18677,18678,18679
Seq#:3; N Pos. 18680,18681,18682,18683,18684,18685,18686,18687,18688,18689
Seq#:3; N Pos. 18690,18691,18692,18693,18694,18695,18696,18697,18698,18699
Seq#:3; N Pos. 18700,18701,18702,18703,18704,18705,18706,18707,18708,18709
Seq#:3; N Pos. 18710,18711,18712,18713,18714,18715,18723,18735,18855

VERIFICATION SUMMARY DATE: 05/16/2005
PATENT APPLICATION: US/10/534,099 TIME: 12:07:16

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:240
M:341 Repeated in SeqNo=3